

APPENDIX C

PEMIGEWASSET RIVER WATERSHED

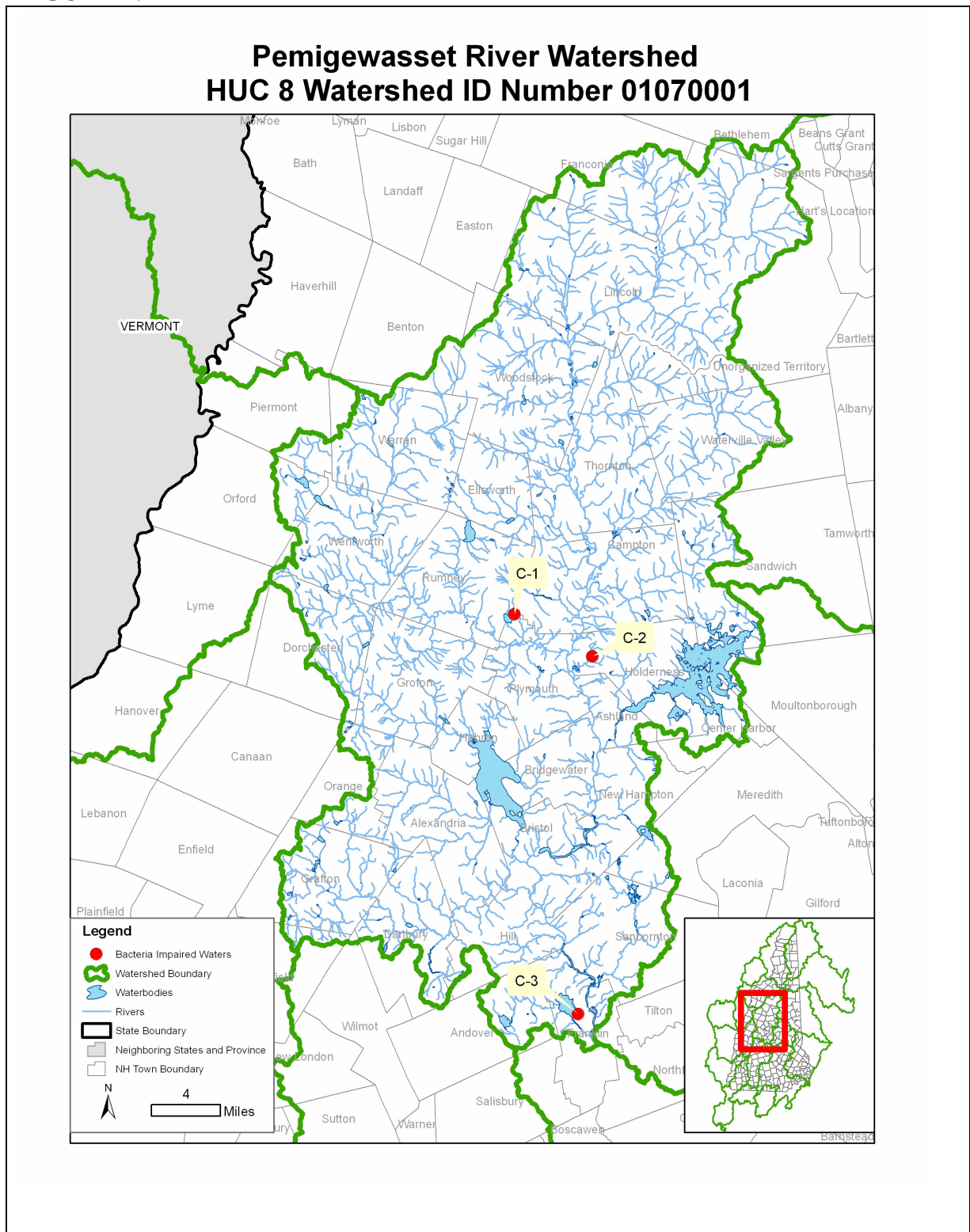
(HUC 8: 01070001)

I. WATERSHED DESCRIPTION AND MAPS

The Pemigewasset River Watershed covers an area of approximately 102.3 square miles situated in the western center of the state. There are 38 towns located at least partially within the watershed and urban areas include Franklin and Plymouth, NH. As shown in Figure 1, the primary watercourse in the region is the Pemigewasset River which flows south from the northern watershed border town of Franconia to Franklin at the southern border. The river terminates at the Franklin Falls Dam Project and becomes the Merrimack River downstream of the dam, outside of the watershed. Land forms in the watershed include the Sandwich Range and Squam Mountains in the east and the Blue Ridge Mountains forming the northwestern edge of the Watershed. There are numerous mountains covering the landscape as part of the White Mountains with elevations decreasing from north to south. The Appalachian Trail follows the watershed along the northwestern border from Lyme to Franconia. There are two lakes of notable size which are Newfound Lake in the southern end of the watershed and Squam Lake to the east.

Based on the 2012 303(d) list, three assessment units (AUs) in this watershed are listed as being impaired for bacteria. The location of the bacteria impaired surface water AUs are shown on Figure 1 as red circles. Items C1 and C3 present the percent reduction needed to meet each water quality criterion (and TMDL), based on the highest recorded bacteria measurement that exceeds the criterion for the AU, as well as the bacteria data collected in the impaired AUID that was used to list the AU as impaired on the 2012 303(d) list.

FIGURE 1:



II. WATER QUALITY DATA TABLES

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C1: Unnamed Brook to Loon Lake

AUID NHRIV700010307-13

Characteristics: freshwater, class B designation, primary contact recreation.

Impairment: *E coli*

Water Quality Criteria & TMDL for *E coli*

Single sample: 406 CTS/100ML

Geometric mean: 126 CTS/100mL

Percent reduction to meet TMDL:

Single sample: 60%

Geometric mean: complies

Data: NHDES EMD, 2012 303(d)

Single sample *E coli* results (CTS/100ML)

Station Name	Station ID	Date	Result
UNNAMED BROOK TO LOON LAKE	LOOPLYI1	06/25/06	20
UNNAMED BROOK TO LOON LAKE	LOOPLYI1	07/16/06	20
UNNAMED BROOK TO LOON LAKE	LOOPLYI1	07/20/08	118
UNNAMED BROOK TO LOON LAKE	LOOPLYI1	06/20/10	1025
UNNAMED BROOK TO LOON LAKE	LOOPLYI1	07/31/11	60
UNNAMED BROOK TO LOON LAKE	LOOPLYI1	09/05/11	340
UNNAMED BROOK TO LOON LAKE	LOOPLYI1L	08/20/06	440
UNNAMED BROOK TO LOON LAKE	LOOPLYI1L	06/22/08	24
UNNAMED BROOK TO LOON LAKE	LOOPLYI1L	08/13/09	50
UNNAMED BROOK TO LOON LAKE	LOOPLYI1L	06/19/11	11

Shaded cells indicate exceedance of water quality criteria

Geometric mean *E. coli* results (CTS/100ML)

Station Name	Date	Result
UNNAMED BROOK TO LOON LAKE	08/20/06	56.04

C2: Unnamed Brook to Unnamed Pond

AUID NHRIV700010404-01

Characteristics: freshwater, class B designation, primary contact recreation.

Impairment: *E coli*

Water Quality Criteria & TMDL for *E coli*

Single sample: 406 CTS/100ML

Geometric mean: 126 CTS/100mL

Percent reduction to meet TMDL:

Single sample: complies

Geometric mean: 23%

Data: NHDES EMD, 2012 303(d)

Single sample *E coli* results (CTS/100ML)

Station Name	Station ID	Date	Result
UNNAMED BROOK TO UNNAMED POND	01-UHB	06/21/10	50
UNNAMED BROOK TO UNNAMED POND	01-UHB	07/20/10	400
UNNAMED BROOK TO UNNAMED POND	01-UHB	08/10/10	220

Geometric mean *E. coli* results (CTS/100ML)

Station Name	Date	Result
UNNAMED BROOK TO UNNAMED POND	08/10/10	163.86

Shaded cells indicate exceedance of water quality criteria

C3: Unnamed Brook

AUID NHRIV700010804-18

Characteristics: freshwater, class B designation, primary contact recreation.

Impairment: *E coli*

Water Quality Criteria & TMDL for *E coli*

Single sample: 406 CTS/100ML

Geometric mean: 126 CTS/100mL

Percent reduction to meet TMDL:

Single sample: 60%

Geometric mean: complies

Data: NHDES EMD, 2012 303(d)

Single sample *E coli* results (CTS/100ML)

Station Name	Station ID	Date	Result
UNNAMED BROOK	WEBFRKL	06/15/06	10
UNNAMED BROOK	WEBFRKL	07/27/06	160
UNNAMED BROOK	WEBFRKL	08/31/06	460
UNNAMED BROOK	WEBFRKL	06/21/07	30
UNNAMED BROOK	WEBFRKL	07/18/07	40
UNNAMED BROOK	WEBFRKL	08/29/07	5
UNNAMED BROOK	WEBFRKL	05/29/08	20
UNNAMED BROOK	WEBFRKL	07/29/08	360
UNNAMED BROOK	WEBFRKL	08/26/08	610
UNNAMED BROOK	WEBFRKL	09/04/08	50
UNNAMED BROOK	WEBFRKL	06/01/09	5
UNNAMED BROOK	WEBFRKL	07/09/09	30
UNNAMED BROOK	WEBFRKL	08/27/09	90
UNNAMED BROOK	WEBFRKL	06/09/10	20
UNNAMED BROOK	WEBFRKL	07/16/10	370
UNNAMED BROOK	WEBFRKL	09/02/10	20
UNNAMED BROOK	WEBFRKL	06/28/11	230
UNNAMED BROOK	WEBFRKL	08/18/11	120
UNNAMED BROOK	WEBFRKL	10/05/06	5
UNNAMED BROOK	WEBFRKL	09/25/07	5
UNNAMED BROOK	WEBFRKL	09/30/08	460
UNNAMED BROOK	WEBFRKL	10/23/08	20
UNNAMED BROOK	WEBFRKLUP	08/27/09	160
UNNAMED BROOK	WEBFRKLUP	09/30/08	400
UNNAMED BROOK	WEBFRKLUP	10/23/08	20
UNNAMED BROOK	WEBFRKLUP2	10/23/08	5

Shaded cells indicate exceedance of water quality criteria

Geometric mean *E. coli* results (CTS/100ML)

Station Name	Date	Result
UNNAMED BROOK UNNAMED BROOK TO LOON LAKE	08/27/09	75.60